Warren Mining District

Facts Relating to Drills In Exploring Mineral Lands

SIVE WORK ALONG THIS LINE AT SEVERAL PROPERTIES IN WARREN DISTRICT.

MAINTAINED THAT DRILL HOLE IS AS EFFECTIVE AND RELIABLE AS SHAFTS IN DETERMINING VALUE OF GROUND.

Drills Will Be Placed in Operation in the Calumet & Arizona Today, at the Eleven-Hundred Foot Level.

The advent of the diamond drill will, within a comparatively short time, enemployed in determining the value of also soon operate a dril on its propwill be done in the various sections of be used for exploring for mineral. the Bisbee camp.

That the results will prove satisfacdrills will be used with equal success .act is determined beyond a doubt. do exploratory work along this line, making it posible to estimate closely opening up good mines. encounter some difficulties not met the cost of th shaft. Skill required with at the Junction, they will still in the operation of these machines is cause of being required to do a great wave much money by exploring by not unusual in amount, as any man of amount of assessment work so as to means of drill holes in preference to ordinary intelligence, with a fair hold their claims, which, in most in-

Economy has at last become the where previously vast sums of money have been expended in developing drill are the economy in time and exgands of dollars could have been saved long ago realized, in the drill method, termined in acvance. an economic measure of vast importance. It is not unreasonable to predict that had many prospecting com- ing Gazette, Houghton, Michigan, the panies adopted this method in proving following interesting facts relating to heir lands, there would now be a con- the diamond drill were given: siderably larger number of successfully operating mines in Arizona toin sinking shafts and running tunnels auriace.

But it is not yet too late, as there are numerous properties whose value for mining have as yet been undeterexpenditure of money in this direction, and the diamond drill method has been demonstrated as the most economical. That the machine will be used extendvely in the future is certain, and as * result at least some of the properties will be so situated, at a much earlier date, to produce mineral than they could have been under the old method

of exploitation. Drill Work at Junction.

At the Junction, where the first clamond crill work was done in the Warren district, Superintendent Louis Buese, one of the Sullivan Machinery company's experts, yesterday completed the erection of the machine for the sinking of the fourth hole on this day, and the company will, in addition to this work, continue prospecting with the drill until the value of every ection of its considerably large tract

a land is prover Superintendent Buese said yesterday to The Review representative that the Junction some six months ago with the drill, no difficulties of a serious ture were experienced. The three soles put down were sunk in a reasonte satisfactory. The theory adsinced, when it was first proposed to the money. we drills in this section, that the mafines were not adapted to the formawere encountered, they did not interfere materially in the work of sinking retained in the companies' treasuries tended on the 900-foot level. Two and finding out just what sort of minerel or other matted was deposited be, the first. It is true that the shafts are in a distance of sixey feet. In

C. & A. to Use Drill in Shaft. on in the Calumet & Arizona's shaft venience had the drills first located not giving much trouble. Some im at the 1.100-foot level, for the purpose the ore bodies, whereas now they may portant news is expected from the property has also been mapped other manipulation of the ore. These facts are assurance that results attained at the Junction, so far, which are introducing diamond drills Pittsburg.

THERE WILL SOON BE EXTEN- as the utility and economy of drill work is concerned, were entirely satisfactory, for the C. & A. people have established beyond a doubt their abil-ity and competence for adopting those methods of operation which give the

Others Using Drills.

best returns for money expended.

Other companies, other than the ones mentioned above, who will employ drills on their properties in the near future are the Calumet & Bisbee. Calumet & Cochise, Wolveine & Arizona, Portage Lake & Alzona, Bisbee Consolidated, Pittsburg & Duluth and Lake Superior & Pittsburg. The firely change the method beretofore Mitchell Development company will gineral lands in the Warten district. erty. The Copper Glance has already Already several of the more promi- done quite extensive exploring by sent prospecting companies have de- means of the drill, and will continue fided to employ the crill method of until the extent of their property's further exploiting their lands, and as value is learned. The Houghton Decoders for the machines have been velopment cimpany is now sinking for placed some time ago, it will be but a water with a crill, and when that few weeks ere a vast amount of work work is completed, the machine will

What a Drill Can Do.

The diamond drill bores a perfectly have been sunk at great cost where results. The core obtained is not on- for their lands.

Some Interesting Facts.

In a recent issue of the Daily Min-

"A comparison of financial economy and time economy in favor of diamond Thousands of dollars expended drill work as against shaft and drift work is interesting. The record for would have been saved to later be shaft work, which has had a splencid used in the work of opening up ore chance to be averaged up during the it will generally fall somewhat below this, probably not standing better than three feet a day. An esumate made by one interested in the Junction prop-Many of these warrant the erty, which operated a diamond drill for several months, shows that the drill work will average close to thirty feet a day, or ten times faster than

shaft work. "It costs the Michigan development companies operating in the Warren ating a diamond drill there will scarcely exceed \$2,000 a month, or one-third the cost of shaft work.

"The original cost of a drill and outfit complete, including diamonds, boilers, pump and other necessary appurtenances, is \$6,000, or the cost of one month's operation with a shaft, nolds good, but as the latter has property. Drilling will be commenced And when a company is through with worked on the land recently and its drill it has an outfit that can be knows quite definitely what returns he sold at very little depreciation from and his partner will get for their laits original cost.

"It is very evident, therefore, that nate in securing the lease. the argument in favor of drill work is well taken. So far as results are concerned, it can be seen that with the in which several Bisbee parties are since starting exploratory work one greatly increased speed and the much interested. Its future cevelopment reduced costs in operatg a crill instead and the company's success is watched of sinking a shaft, a company can put by many who hope that the work to be down ten holes at a given distance in done by Overlock and Thorrain will! the same length of time that it would result in putting the mine in such while length of time, and results were take to put down one shaft that dis- shape as will warrant its equipment tance, and will only expend one-third for extensive exploration and produc-

which have been sunk and have not on the property. from here, has been absolutely dis. yet been bottomed in ore—the Michi-While in some places cav. gan people are not celebrated for re tties and openings of various natures grets. But it is evident that tens of thousands of dollars might have been confined to the three drifts being exif drill work had been adopted from drifts, one north and the other west, would have been required ultimately; the first few feet considerable water but they could have been sunk with a was encountered, but the work is now Today a drill will be put in commis- view to the greatest economy and con- progressing rapidly, and the water is exploring the ground in this vicin- or may not be in the most convenient Calumet & Bisbee before many weeks

"The shafts of all those companies body opened at the Lake Superior &

Ju Particular with Other Jmportant Information from Personal Observation and an ana

Claim Holders **Good Advice**

PROMINENT MINING MAN GIVES HIS VIEWS.

He Says That Small Holders, Without Means, Should Interest Influential

ham Group.

The deal closed on Friday between he Bisbee parties owning what is known as the Cunningham group of claims, and Michigan men, whereby the latter will soon commence the exploration of the section of territory lying between the Copper Glance and Rishee Consolidated properties and Don Luis, is about the most sensible of any of its kind that has been perfected here in a long time," said a prominent mining man yesterday, "and the many small claim-holders hereabouts who haven't the means to thoroughly develop their properties, would do well to enter into a similar agreement.

"Diamond drills can de'ermine cor fory, insofar as finding out the value straight, smooth hole to any depth or rettly and definitely whether or not of the many properties is concerned, in any given direction from vertical to mineral land is worth developing, and there is no doubt. Extensive use has horizontal, bringing to the surface a the Michigan people seem ready to go stready neen made of the diamond solid section or "core" of all strain shead with such work provided they Grill on the Junction company's lands, pased through, in order, showing their are given a chance of realizing profits and the work has been carried on with exact depth, thickness and character after final conclusions have been argreat success. Conditions here, so of the rock. This core is large enough rived at in instances where mineral far as general formation is concerned, to be thoroughly examined and tested, has been located. There are many in similar to those in most all parts and what is of almost equal value, if claim owners here, whose property is of the district, so the assumption that the mineral sought for is absent, the situated within a radius of a few miles outside the city, who have done the In the other sections of the camp is it also gives positive information of necessary assessment work, but are not outside of reason. At least, it is the material that would be met in not in a position, nor have they the fair to assume that even should cer- sinking a shaft to work the mineral means, to go ahead with development tain companies, who have decided to whose presence has been determined, work that would probably result in

"These holders are kept poor be knowledge of engines and machinery, stances, are quite large groups. If can run one for ordinary prospecting, their properties contain valuable dewatchword in the Warren district, Among the other inestimable advan- posits, as the cwners are confident of. taxes gained by prospecting with the the diamond drill can soon make the facts known, and thus enable the properties. Deep shafts and tunnels pense, and especially in accuracy of holders to command consistent prices

the use of a diamond drill would have by a correct and accurate record of "The small holders should combine been just as satisfactory in locating the mineral sought for, but a record their efforts for the purpose of maktre bodies. In many instances thous also of the material which a shaft will ing similar arrangements as were have to penetrate to reach the min- made by the owners of the Cunning and it is a strange fact that the men eral. By means of the core the value ham group. It costs nothing to make who have been prominent in the devel- of the mineral and the cost of a shaft such an arrangement, and there is no opment of this rich territory have not or tunnel to it can be accurately de- more rapid, economical or accurate matter. method of determining the value of property which has the appearance of baving mineral deposits beneath."

> valuable as points from which to carry on ope.auons, and they will be used for this purpose. By placing the youd the capacity or the cribis.

"It is also practicable, in the cases deposits and in the purchase of equip last two years in the Bisbee camp, is of those properties where it is beneved that the shalt is already bot- danger of pneumonia when it is used tomed below the apex of the ore deposits, to drive their noles horizontal- gus Falls, Minnesota, fell and disloiy, and thus prove their territory for a cated her shoulder. She had a surdistance of 1,000 or 1,500 feet in each geon set it back in place as soon as cirection from the present depth."

EASTER SUNDAY LEASED.

Property to be Worked Extensively During Next 18 Months.

district about \$6,000 a month to carry ed in the Warren district, northeast on operations in one shaft, with an in- of Bisbee, will be worked and devel- to sleep which she had not done for crease in costs for each additional oped during the coming eighteen point of operation. The cost of oper- | months by Messrs. Overlock and Thorrain, who have secured a lease of the lands through the omcials of the company owning them. Overlock and Thorrain are required by the agreement with the company to do extens we development on the property within the year and one-half that the lease bor, they consider themselves fortu-

The Easter Sunday, as is generally known, is a gold mining proposition tion of the valuable minerals which "There are no regrets for the shafts seem certain to have been deposited

CALUMET AND BISBEE.

At the Calumet & Bisbee, work is Further diamond drill work at place for economical tramming and have passed, as one of the drifts is making rapidly toward the large ore

Rich Strike in Mayflower District

BIG GOLD FIND STRUCK NEAR SILVER CITY.

Clifton Citizens Are Much Wrought Up Over It-Lowest Assay Yet Found is \$45, and the Highest \$135. All Rock Pans Gold.

News has reached Silver City of a rich gold strike in the Mayflower district, part of which lies in western Grant county. The citizens of Clifton Francis Cutting. Men to Do Exploring With Drills, are much wrought up over the new as Did Parties Owning the Cunning- discovery, and the Era of that place says that there has been little else talked of in mining circles. strike was made on Apache creek, which is in the extreme north end of the district. The lead upon which the strike was made is near the line of New Mexico and Arizona, pitching northeast and southwest. About half the claims located on the lead are in Graham county, and the other half in Grant county, New Mexico. The discovery was made about four weeks ago by one of a group of prospectors who were confident the lead existed. owing to the finding of a piece of rich gold float in that district several years ago. The lead is a "blind" one, with several different outcroppings of the vein, which can be traced for miles across the country and runs directly for the Jim Crow mine, a mile or so west of the old Carlisle mines, in the western part of the county. The vein matter, according to the Era, is several feet wide, all of which carries values, and four feet of which will averagemore than \$100. The lowest assay yet obtained from the lead is \$45, and the highest \$135. The entire vein matter seems to be pretty evenly impregnated with gold, each panning yielding colors, some of which is two locators have sunk a shaft on one of the seven claims, and are now down twelve feet. All the country between the strike and the Jim Crow mine has been located but as the vein does not crop out on the surface, it is yet too soon to determine whose location covers the valuable lead. The fead is covered by a capping from eight to twelve feet thick, except at an occathe claims aiready located. Prospectors in years past went through the capping and then abandoned the work

(Continued on Page Eight.)

DON'T WORRY.

This is easier said than done, yet 't may be of some help to consider the thing which you have no control it is obvious that worrying will not help fo exploratory purposes will be highly er hand, if within your control you have only to act. When you have a cold and fear an attack of pneumonia, arills in the bottoms of the shorts, that buy a bottle of Chamberlain's Cough much additional cepth is gained, be- Remedy and use it judiciously and all cause for worry as to the outcome Mrs. Jonnson Soderholm, of Fer-

possible, but it was quite sore and pained her very much. Her son mentioned that he had seen Chamberlain's Pain Balm advertised for sprains and soreness, and she asked him to buy The Easter Sungay property, locat- her a hottle of it, which he did. It quickly relieved her and enabled her several days. The son was so much pleased with the relief it gave his mother that he has since recommended it to many others. For sale by all drugists.

Maricopa & Phoœnix & Salt River Valley R. R. IN EFFECT OCT. 23, 1903. PACIFIC STANDARD TIME.

STATIONS TOWARDS PROENIK FROM PHOENIX 5:10 p.m. 8:59 a.m. 7:00 p.m. Lv ... Phoenix ... Ar 5:36 a.m. 7:41 a.m. 2:16 p.m. 5:29 p.m. 9:09 a.m. 7:20 p.m. Ar ... Tempe ... Lv 5:12 a.m. 7:24 a.m. 1:55 p.m. 9:09 a.m. 7:20 p.m. Ar... Tempe ... Lv 5:12 a.m. 7:24 a.m. 1:51

Mesa Branch

STATIONS TOWARDS MESA 5:38 f. r. 9:12 am 7:19 a.m. 1:49 p.m. 6:55 a.m. 1:25 p.m. Lv....Tempe... Ar....Mesa.. 6: 5 p.in. v.33 a.m.

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